

In the Claims:

Please cancel claims 73, 79, 84, 85 and 86 without prejudice or disclaimer.

Please amend the claims as follows:

59. (Amended) An isolated polypeptide comprising a fragment of an amino acid sequence of SEQ ID NO:24, wherein said fragment does not bind to choline, has lectin activity and comprises at least 138 consecutive amino acids of SEQ ID NO:24.

60. (Amended) An isolated polypeptide comprising an amino acid sequence as set forth in SEQ ID NO: 5, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, wherein said polypeptide does not bind choline and has lectin activity and said polypeptide comprises up to 398 amino acids.

61. (Amended) An isolated polypeptide comprising the amino acid sequence set forth in SEQ ID NO:3, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, and said polypeptide does not bind choline and has lectin activity.

62. (Amended) The isolated polypeptide of claim 61, wherein said polypeptide comprises the amino acid sequence set forth in SEQ ID NO:1, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, and said polypeptide does not bind choline and has lectin activity.

63. (Amended) The isolated polypeptide of claim 61, wherein said polypeptide comprises the amino acid sequence set forth in SEQ ID NO:24, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, and said polypeptide does not bind choline and has lectin activity.

3  
67. (Amended) An isolated polypeptide comprising an amino acid sequence set forth in SEQ ID NO: 4, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, wherein said polypeptide does not bind choline and has lectin activity and said polypeptide comprises up to 398 amino acids.

4  
69. (Amended) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

- a) an analog of the amino acid sequence set forth in SEQ ID NO:5, wherein said polypeptide does not bind choline and has lectin activity;
- b) an analog of the amino acid sequence set forth in SEQ ID NO:4, wherein said polypeptide does not bind choline and has lectin activity;
- c) an analog of the amino acid sequence set forth in SEQ ID NO:11, wherein said polypeptide does not bind choline and has lectin activity, and comprise up to 328 amino acids;
- d) an analog of the amino acid sequence set forth in SEQ ID NO:9, wherein said polypeptide does not bind choline and has lectin activity, and comprises up to 376 amino acids; and,
- e) an analog of the amino acid sequence set forth in SEQ ID NO:10, wherein said polypeptide does not bind choline and has lectin activity and comprises up to 328 amino acids.

70. (Amended) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

- a) a derivative of the amino acid sequence set forth in SEQ ID NO:5, wherein said polypeptide does not bind choline and has lectin activity;
- b) a derivative of the amino acid sequence set forth in SEQ ID NO:4, wherein said polypeptide does not bind choline and has lectin activity;

- c) a derivative of the amino acid sequence set forth in SEQ ID NO:11, wherein said polypeptide does not bind choline and has lectin activity, and comprise up to 328 amino acids;
- d) a derivative of the amino acid sequence set forth in SEQ ID NO:9, wherein said polypeptide does not bind choline and has lectin activity, and comprises up to 376 amino acids; and,
- e) a derivative of the amino acid sequence set forth in SEQ ID NO:10, wherein said polypeptide does not bind choline and has lectin activity and comprises up to 328 amino acids.

71. (Amended) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

- a) the amino acid sequence set forth in SEQ ID NO:5 wherein said amino acid sequence comprises at least one to 57 amino acid substitutions and said polypeptide comprises up to 398 amino acids, retains native tertiary structure, does not bind choline and has lectin activity;
- b) the amino acid sequence set forth in SEQ ID NO:4 wherein said amino acid sequence comprises at least one to 57 amino acid substitutions and said polypeptide comprises up to 398 amino acids, retains native tertiary structure, does not bind choline and has lectin activity;
- c) the amino acid sequence set forth in SEQ ID NO:11 wherein said amino acid sequence comprises at least one to 57 amino acid substitutions and said polypeptide retains native tertiary structure, does not bind choline and has lectin activity, and comprise up to 328 amino acids;
- d) the amino acid sequence set forth in SEQ ID NO:9 wherein said amino acid sequence comprises at least one to 57 amino acid substitutions and said polypeptide retains native tertiary structure, does not bind choline and has lectin activity, and comprises up to 376 amino acids;

E4

e) the amino acid sequence set forth in SEQ ID NO:10 wherein said amino acid sequence comprises at least one to 57 amino acid substitutions and said polypeptide retains native tertiary structure, does not bind choline and has lectin activity and comprises up to 328 amino acids; and,

f) the amino acid sequence set forth in SEQ ID NO:3 wherein said amino acid sequence comprises at least one to 57 amino acid substitutions and said polypeptide retains native tertiary structure, does not bind choline and has lectin activity

72. (Amended) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

a) the amino acid sequence set forth in SEQ ID NO:5, wherein said polypeptide retains native tertiary structure, does not bind choline and has lectin activity;

b) the amino acid sequence set forth in SEQ ID NO:4, wherein said polypeptide retains native tertiary structure, does not bind choline and has lectin activity;

c) the amino acid sequence set forth in SEQ ID NO:11, wherein said polypeptide retains native tertiary structure, does not bind choline and has lectin activity, and comprise up to 328 amino acids;

d) the amino acid sequence set forth in SEQ ID NO:9, wherein said polypeptide retains native tertiary structure, does not bind choline and has lectin activity, and comprises up to 376 amino acids; and,

e) the amino acid sequence set forth in SEQ ID NO:10, wherein said polypeptide retains native tertiary structure, does not bind choline and has lectin activity and comprises up to 328 amino acids.

74. (Amended) An isolated polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:11, wherein said polypeptide does not bind to choline and has lectin activity and comprises up to 328 amino acids.

75. (Amended) An isolated polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:9 wherein said polypeptide does not bind to choline and has lectin activity and comprises up to 376 amino acids.

*E5*  
76. (Amended) The isolated polypeptide of claim 75, wherein said polypeptide comprises SEQ ID NO:7.

*E6*  
78. (Amended) The isolated polypeptide of claim 75, wherein said polypeptide is immunogenic.

*E7*  
81. (Amended) An isolated polypeptide comprising an amino acid sequence as set forth in SEQ ID NO:10, wherein said polypeptide does not bind to choline and has lectin activity and comprises up to 328 amino acids.

*E8*  
87. (Amended) An isolated polypeptide comprising an amino acid sequence set forth in SEQ ID NO: 11, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, and said polypeptide does not bind choline and has lectin activity and comprises up to 328 amino acids.

*E9*  
93. (Amended) An isolated polypeptide comprising an amino acid sequence set forth in SEQ ID NO: 10, wherein said amino acid sequence comprises at least one to 57 amino acid substitutions, and said polypeptide does not bind choline and has lectin activity and comprises up to 328 amino acids.

Please add the following claims:

*E10*  
95. (New) A pharmaceutical composition comprising the polypeptide of claim 75 and a pharmaceutically acceptable adjuvant, carrier, or diluent.